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Checklist of the Braulidae, Camillidae, Diastatidae and Drosophilidae of Finland (Diptera, Ephydroidea)

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Abstract

A checklist of the Braulidae (1 species), Camillidae (3 spp.), Diastatidae (10 spp.) and Drosophilidae (67 spp.) of Finland is presented. Campichoetinae is included as a subfamily of Diastatidae.

Keywords

Checklist, Finland, Diptera, biodiversity, faunistics

Introduction

The Ephydroidea is now recognized as a well-supported, probably monophyletic clade of acalyptrate flies (Wiegmann et al. 2011), although the correct placement of some of the included families – especially the very unsual bee louses of family Braulidae – is still being discussed. The relationships of the families within the superfamily are less understood and the families are listed alphabetically in the checklist below. Seven or eight families are currently included in Ephydroidea. Five of them are found in Finland. Four families are covered in this paper; the fifth (Ephydridae itself) has its own treatment in this volume of ZooKeys. The families missing from Finland are the Curtonotidae, Cryptochetidae, and Nannodastiidae with uncertain affinities (Papp

Family	Number of species in			T1 - C11 - 1
	World (Pape et al. 2011)	Europe	Finland	Level of knowledge
Braulidae	7	3	1	poor
Camillidae	40	8	3	average
Diastatidae	49 (Mathis and Barraclough 2011)	16	10	good
Drosophilidae	4003	121	67	good

Table 1. Number of species by family.

and Mathis 2001). Griffiths (1972) proposed a new family, Campichoetidae, for *Campichoeta* Macquart, 1835. We follow the world catalogue of Diastatidae (Mathis and Barraclough 2011) and keep Campichoetinae as a subfamily of Diastatidae.

World catalogues have been recently published for Diastatidae (Mathis and Barraclough 2011) and Drosophilidae (Brake and Bächli 2008). The North European Drosophilidae were treated in detail by Bächli et al. (2004) and the review of Finnish *Drosophila* by Hackman (1954) is now obsolete. The Finnish species of Braulidae and Camillidae were last listed by Hackman (1980); the diastatids were treated by Chandler (1987).

Checklist

suborder Brachycera Macquart, 1834 clade Eremoneura Lameere, 1906 clade Cyclorrhapha Brauer, 1863 infraorder Schizophora Becher, 1882 clade Muscaria Enderlein, 1936 parvorder Acalyptratae Macquart, 1835 superfamily Ephydroidea Zetterstedt, 1837

BRAULIDAE Egger, 1853 **BRAULA** Nitzsch, 1818 Braula coeca Nitzsch, 1818

CAMILLIDAE Frey, 1921
CAMILLA Haliday, 1838
Camilla atrimana Strobl, 1910

= atripes Duda, 1934

= acutipennis misid.
Camilla flavicauda Duda, 1922

= glabrata Collin, 1956
Camilla glabra (Fallén, 1823)

= subfuscipes Collin, 1933

DIASTATIDAE Hendel, 1917

CAMPICHOETINAE Griffiths, 1972

CAMPICHOETA Macquart, 1835

Campichoeta griseola (Zetterstedt, 1855)

Campichoeta obscuripennis (Meigen, 1830)

DIASTATINAE Hendel, 1917

DIASTATA Meigen, 1830

Diastata adusta Meigen, 1830

= unipunctata Zetterstedt, 1847

Diastata boreonigra Chandler, 1987

Diastata costata Meigen, 1830

Diastata flavicosta Chandler, 1987

Diastata fuscula (Fallén, 1820)

Diastata nebulosa (Fallén, 1823)

Diastata ornata Meigen, 1830

Diastata vagans Loew, 1864

DROSOPHILIDAE Rondani, 1856

STEGANINAE Hendel, 1917

AMIOTA Loew, 1862

sg. Amiota Loew, 1862

Amiota albilabris (Roth in Zetterstedt, 1860)

Amiota alboguttata (Wahlberg, 1839)

Amiota rufescens (Oldenberg, 1914)

Amiota subtusradiata Duda, 1934

CACOXENUS Loew, 1858

sg. Paracacoxenus Hardy & Wheeler, 1960

Cacoxenus argyreator Frey, 1932

LEUCOPHENGA Mik, 1886

sg. Neoleucophenga Oldenberg, 1915

Leucophenga quinquemaculata Strobl, 1893

PHORTICA Schiner, 1862

sg. Phortica Schiner, 1862

Phortica variegata Fallén, 1823

STEGANA Meigen, 1830

sg. Stegana Meigen, 1830

Stegana furta (Linnaeus, 1766)

= curvipennis (Fallén, 1823)

sg. Steganina Wheeler, 1960

Stegana baechlii Laštovka & Máca, 1982

Stegana coleoptrata (Scopoli, 1763)

Stegana hypoleuca Meigen, 1830

Stegana longifibula Takada, 1968

Stegana mehadiae Duda, 1924

Stegana nigrithorax Strobl, 1898

Stegana similis Laštovka & Máca, 1982

DROSOPHILINAE Rondani, 1856

CHYMOMYZA Czerny, 1903

Chymomyza amoena (Loew, 1862)

Chymomyza caudatula Oldenberg, 1914

Chymomyza costata (Zetterstedt, 1838)

Chymomyza distincta (Egger, 1862)

Chymomyza fuscimana (Zetterstedt, 1838)

DROSOPHILA Fallén, 1823

sg. Dorsilopha Sturtevant, 1942

Drosophila busckii Coquillett, 1901

sg. Drosophila Fallén, 1823

Drosophila ezoana Takada & Okada, 1957

Drosophila funebris (Fabricius, 1787)

Drosophila histrio Meigen, 1830

Drosophila hydei Sturtevant, 1921

= repleta misid.

Drosophila immigrans Sturtevant, 1921

= tripunctata Becker, 1908 preocc.

Drosophila limbata von Roser, 1840

Drosophila littoralis Meigen, 1830

Drosophila lummei Hackman, 1972

Drosophila montana Stone, Griffen & Patterson, 1941

= ovivororum Lakovaara & Hackman, 1973

Drosophila phalerata Meigen, 1830

Drosophila picta Zetterstedt, 1847

Drosophila repleta Wollaston, 1858

Drosophila subarctica Hackman, 1969

Drosophila testacea von Roser, 1840

Drosophila transversa Fallén, 1823

Drosophila vireni Bächli, Vilela & Haring, 2002

sg. Sophophora Sturtevant, 1942

Drosophila alpina Burla, 1948

Drosophila ambigua Pomini, 1940

Drosophila bifasciata Pomini, 1940

Drosophila eskoi Lakovaara & Lankinen, 1974

Drosophila ingrica Hackman, 1957

Drosophila melanogaster Meigen, 1830

Drosophila obscura Fallén, 1823

Drosophila simulans Sturtevant, 1919

Drosophila subobscura Collin, 1936

Drosophila subsilvestris Hardy & Kaneshiro, 1968

= silvestris Basden, 1954 preocc.

Drosophila tristis Fallén, 1823

HIRTODROSOPHILA Duda, 1924

Hirtodrosophila cameraria (Haliday, 1833)

Hirtodrosophila confusa (Staeger, 1844)

Hirtodrosophila lundstroemi (Duda, 1935)

Hirtodrosophila oldenbergi (Duda, 1924)

Hirtodrosophila trivittata (Strobl, 1893)

LORDIPHOSA Basden, 1961

Lordiphosa fenestrarum (Fallén, 1823)

Lordiphosa nigricolor (Strobl, 1898)

MICRODROSOPHILA Malloch, 1921

sg. Microdrosophila Malloch, 1921

Microdrosophila congesta (Zetterstedt, 1847)

sg. Oxystyloptera Duda, 1924

Microdrosophila zetterstedti Wheeler, 1959

= nigriventris (Zetterstedt, 1847) preocc.

SCAPTODROSOPHILA Duda, 1923

Scaptodrosophila deflexa (Duda, 1924)

= guyenoti (Burla, 1948)

SCAPTOMYZA Hardy, 1849

sg. Hemiscaptomyza Hackman, 1959

Scaptomyza trochanterata Collin, 1953

Scaptomyza unipunctum (Zetterstedt, 1847)

sg. Parascaptomyza Duda, 1924

Scaptomyza pallida (Zetterstedt, 1847)

= disticha (Duda, 1921)

sg. Scaptomyza Hardy, 1849

Scaptomyza consimilis Hackman, 1955

Scaptomyza flava (Fallén, 1823)

= flaveola (Meigen, 1830)

= apicalis Hardy, 1849

Scaptomyza graminum (Fallén, 1823)

Scaptomyza griseola (Zetterstedt, 1847)

Scaptomyza montana Wheeler, 1949

Scaptomyza teinoptera Hackman, 1955

Excluded species

Stegana strobli Mik, 1898 misidentification Lordiphosa hexasticha (Papp, 1971) not found within present borders

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